

3. (Amended) The catalyst of claim 1 wherein the noble metal is present in an amount up to 5 percent by weight.

5. (Amended) The catalyst of claim 4 wherein the at least one transition metal is selected from the group consisting of Cu, Zn, Ni, Mo, Ir, Co, Fe, Cr, and Mn.

7. (Amended) The catalyst of claim 6 wherein the at least one additional metal is selected from the group consisting of Cs, K, and Ba.

9. (Amended) The catalyst of claim 8 wherein the rare earth oxide is selected from the group consisting of La_2O_3 and CeO_2 .

11. (Amended) The catalyst of claim 10 wherein the additional metal is selected from the group consisting of Cs, K, and Ba.

13. (Amended) The catalyst of claim 12 wherein the rare earth oxide is selected from the group consisting of La_2O_3 and CeO_2 .

15. (Amended) The catalyst of claim 14 wherein the additional metal is selected from the group consisting of Cs, K, and Ba.

17. (Amended) The catalyst of claim 16 wherein the rare earth oxide is selected from the group consisting of La_2O_3 and CeO_2 .

19. (Amended) The catalyst of claim 18 wherein the rare earth oxide is selected from the group consisting of La_2O_3 and CeO_2 .

21. (Amended) The catalyst of claim 20 wherein the rare earth oxide is selected from the group consisting of La_2O_3 and CeO_2 .

23. (Amended) The catalyst of claim 4 further comprising at least one additional metal and at least one rare earth oxide, the additional metal and the rare earth oxide each present in an amount of at most 5 percent, the additional metal is selected from the group consisting of Cs, K, and Ba.

24. (Amended) The catalyst of claim 4 further comprising at least one additional metal and at least one rare earth oxide, the additional metal and the rare earth oxide each present in an amount of at most 5 percent, the additional metal comprising at least one selected from alkali metals and alkaline earth metals, the rare earth oxide is selected from the group consisting of La_2O_3 and CeO_2 .

25. (Amended) The catalyst of claim 5 further comprising at least one additional metal and at least one rare earth oxide, the additional metal and the rare earth oxide each present in an amount of at most 5 percent, the additional metal is selected from alkali metals and alkaline earth metals.

26. (Amended) The catalyst of claim 5 further comprising at least one additional metal and at least one rare earth oxide, the additional metal and the rare earth oxide each present in an amount of at most 5 percent, the additional metal is selected from the group consisting of Cs, K, and Ba.

27. (Amended) The catalyst of claim 5 further comprising at least one additional metal and at least one rare earth oxide, the additional metal and the rare earth oxide each present in an amount of at most 5 percent, the additional metal is selected from the group consisting of alkali metals and alkaline earth metals, the rare earth oxide is selected from the group consisting of La_2O_3 and CeO_2 .

28. (Amended) The catalyst of claim 5 further comprising at least one additional metal and at least one rare earth oxide, the additional metal and the rare earth oxide each present in an amount of at most 5 percent, the additional metal is selected from the group consisting of Cs, K, and Ba, the rare earth oxide is selected from the group consisting of La_2O_3 and CeO_2 .

29. (Amended) A catalyst for converting NO_x in exhaust gases to NH_3 comprising:
at least one compound represented by a formula $\text{AB}_{1-x}\text{M}_x\text{O}_3$, wherein A is a rare earth metal, B is a transition metal, M is a noble metal, and wherein x is in a range from 0 to 0.3.